

The work with snapbeans has not continued in recent years. We are, however, nearly ready to release a red kidney type variety with halo blight resistance combined with mosaic resistance. Experiences of the last growing season confirmed the fact that this material has very nearly an immunity to halo-blight race 1 under field conditions. Limited observations indicated that some resistance, but not a high level, was carried against race 2. We are anxious to obtain accessions with good resistance to race 2, so that the work of breeding for halo blight resistance might be continued. We will also share our present red kidney type material with anyone who may desire it.

Lima Bean Investigations

R. E. Wester

Downy mildew on the move in 1964. Downy mildew, Phytophthora phaseoli, Thaxt. strain B was observed on September 1, 1964, on Thaxter bush lima bean two miles west of Shiloh, New Jersey, which is 10 miles southwest of the Pittsgrove area where this strain was first observed in 1958. It was inactive in 1959 and in 1960 spread slightly north of Pittsgrove and six miles south to six other locations that extended to the Research Center of Seabrook Farms Company at Bridgeton, New Jersey. From 1961 through 1963 this strain did not re-occur in any of the previously mentioned locations.

Overwintering of Phytophthora phaseoli

R. E. Wester and R. W. Goth

Although previous workers were able to obtain infection by planting lima beans near infested overwintered pods, the importance of oospores in the overwintering of the downy mildew fungus, Phytophthora phaseoli, Thaxt., was not mentioned. At Beltsville infection was obtained only when overwintered pods with an abundance of oospores were used as inoculum, which indicates that oospores are the overwintering infectious units.